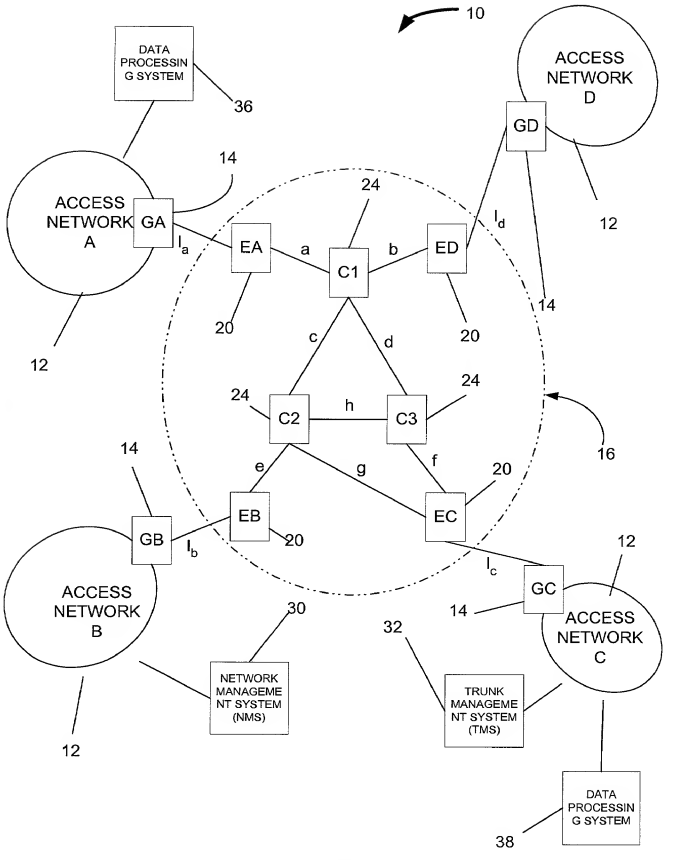
10
DATA PROCESSING SYSTEM
36
ACCESS NETWORK A
GA
14
12
EA
a
C1
b
ED
24
20
c
d
C2
h
C3
e
g
f
EB
EC
GB
20
ACCESS NETWORK B
30
NETWORK MANAGEMENT SYSTEM (NMS)
GD
ACCESS NETWORK D
l_a
l_b
l_c
l_d
16
GC
ACCESS NETWORK C
32
TRUNK MANAGEMENT SYSTEM (TMS)
DATA PROCESSING SYSTEM
38

FIG_1

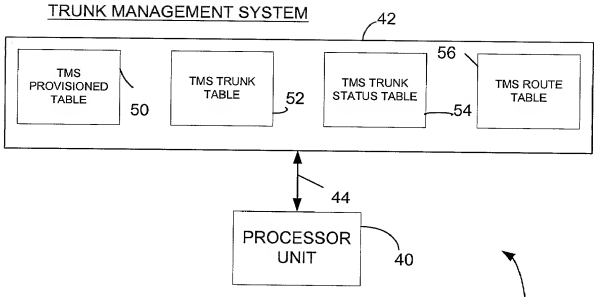
TRUNK MANAGEMENT SYSTEM
42
TMS PROVISIONED TABLE
50
TMS TRUNK TABLE
52
TMS TRUNK STATUS TABLE
54
56
TMS ROUTE TABLE
44
PROCESSOR UNIT
40
32

FIG_2

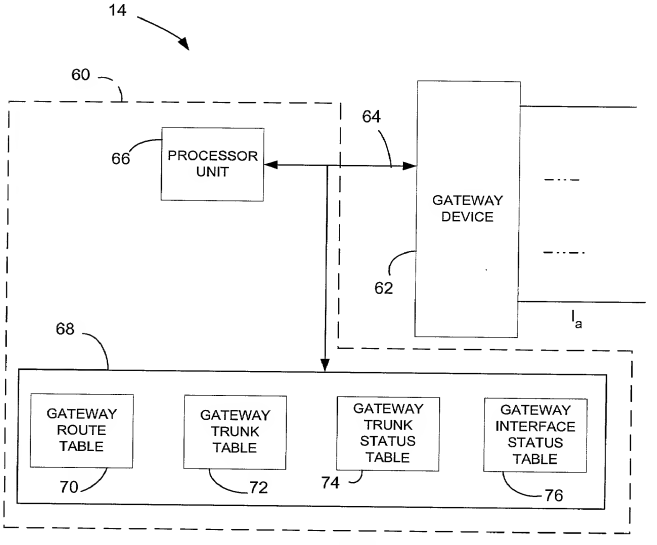
14
60
66
PROCESSOR UNIT
64
GATEWAY DEVICE
62
I_a
68
GATEWAY ROUTE TABLE
70
GATEWAY TRUNK TABLE
72
GATEWAY TRUNK STATUS TABLE
74
GATEWAY INTERFACE STATUS TABLE
76

FIG_3

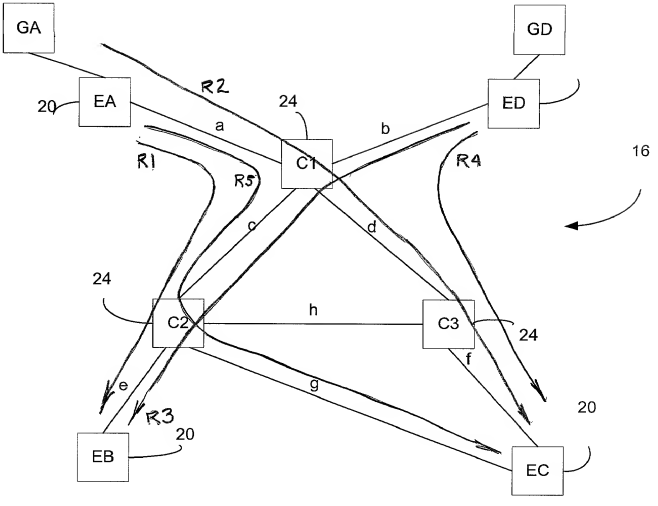

FIG_4

TMS ROUTE TABLE

80

82 Gateway	84 Connection	86 Route	88 Link
GA	EA-EB	R1	a, c, e
	EA-EC	R2	a, d, f
		R5	a, c, g
GD	ED-EB	R3	b, c, e
	ED-EC	R4	b, d, f

FIG_5

80A

Gateway	Connection	Route	Link
GA	EA -> EB	R1	a, c, e
	EA -> EC	R2	a, d, f
		R5	a, c, g

FIG_6A

80B

Gateway	Connection	Route	Link
GD	ED -> EB	R3	b, c, e
	ED -> EC	R4	b, d, f

FIG_6B

92 94

Provisioned Link	Bandwidth
EA->C1	100
C1->C2	100
C2->EB	100
ED->C1	100
E1->C3	100
C3->EC	100
C2->EC	50

90

FIG_7

GATEWAY (GA) TRUNK TABLE

104

106

100A

Trunk	Provisioned Link	Bandwidth
Aa	EA->C1	100
Ac	C1->C2	50
Ad	C1->C3	50
Ae	C2->EB	50
Af	C3->EC	50
Ag	C2->EC	50

102

FIG_8A

100B

GATEWAY (GD) TRUNK TABLE

102

104

106

Trunk	Provisioned Link	Bandwidth
Db	ED->C1	100
Dc	C1->C2	50
Dd	C1->C3	50
De	C2->EB	50
Df	C3->EC	50

FIG_8B

TMS TRUNK STATUS TABLE

110

Gateway	Trunk (112)	Provisioned Link (114)	Bandwidth (116)	Used (122)	Available (124)
GA	Aa	EA->C1	100	90	10
	Ac	C1->C2	50	40	10
	Ad	C1->C3	50	50	0
	Ae	C2->EB	50	40	10
	Af	C3->EC	50	50	0
	Ag	C2->EC	50	0	50
GD	Db	ED->C1	100	90	10
	Dc	C1->C2	50	50	0
	Dd	C1->C3	50	40	10
	De	C2->EB	50	50	0
	Df	C3->EC	50	40	10

FIG_9

GATEWAY (GA) TRUNK STATUS TABLE

130A

Trunk	Provisioned Link	Bandwidth	Used	Available	Link
Aa	EA->C1	100	90	10	a
Ac	C1->C2	50	40	10	c
Ad	C1->C3	50	50	0	d
Ae	C2->EB	50	40	10	e
Af	C3->EC	50	50	0	f
Ag	C2->EC	50	0	50	g

FIG_10A

130D

GATEWAY (GD) TRUNK STATUS TABLE

Trunk	Provisioned Link	Bandwidth	Used	Available	Link
Db	ED->C1	100	90	10	b
Dc	C1->C2	50	50	0	c
Dd	C1->C3	50	40	10	d
De	C2->EB	50	50	0	e
Df	C3->EC	50	40	10	f

FIG_10B

140A

INTERFACE STATUS TABLE (GATEWAY GA)

Interface	Bandwidth	Used	Available
G(1)	100	80	20
G(2)	50	20	30
G(3)	50	30	20
G(4)	50	10	40
G(5)	50	20	30

FIG_11